IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

W. McKinzie

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10/828.542

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Alexandria, VA 22313-1450

Filed:

April 19, 2004

For:

SYSTEMS AND METHODS FOR

**BLOCKING MICROWAVE** 

PROPAGATION IN PARALLEL

PLATE STRUCTURES UTILIZING CLUSTER VIAS

Art Unit:

2817

Examiner:

Seungsook Ham

INFORMATION DISCLOSURE STATEMENT

IN ACCORDANCE WITH 37 C.F.R. §§ 1.97-1.98

Commissioner for Patents P.O. Box 1450

Alexandria, Virginia 22313-1450

Sir:

In accordance with the duty of disclosure imposed by 37 C.F.R. § 1.56 to inform the Office of all references known by Applicant or Applicant's representative that may be material to the examination of the subject application, Applicant's representative hereby provides this Information Disclosure Statement that is prepared in accordance with 37 C.F.R. §§ 1.97-1.98. Form PTO/SB/08 (4 pages) and a copy of the cited non patent literature is provided herewith in connection with the above-captioned application. The cited references that comprise issued U.S. patents are not attached, per the Notice of waiver published in the Official Gazette on August 5, 2003.

The documents listed on the attached Form PTO/SB/08 include communications from a foreign patent office in connection with a counterpart foreign application. Copies of the communications, International Search Report for International PCT Application PCT/US05/13235 and International Search Report for International PCT Application

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I hereby certify that this correspondence and the attached papers are being deposited with

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12/13/05

Date

Applicant: W. McKinzie
INFORMATION DISCLOSURE STATEMENT
Page 2

PCT/US05/06785, are also provided. All documents listed on the attached Form PTO/SB/08 are in the English language, hence, in accordance with the requirements of 37 C.F.R. § 1.98, as amended effective March 16, 1992, no further explanation of the listed items is necessary.

Although these documents and information are made known to the Patent and Trademark Office in compliance with Applicants' duty of disclosure, such disclosure is not to be construed as an admission by Applicants or Applicants' representative that any of the references, singly or in any combination thereof, is effective as prior art against the subject application. In accordance with 37 C.F.R. § 1.97(h), the filing of this Information Disclosure Statement shall not be construed to mean that a search has been made or that no other material information as defined in 37 C.F.R. § 1.56(b) exists.

Applicants respectfully request that the Examiner review the foregoing references and request that they be made of record in the file history of the above-captioned application.

A check in the amount of \$180.00 is enclosed as required under 37 CFR 1.17(p). The Commissioner is hereby authorized to charge any fee, including any submitted herewith if the attached check(s) is in the wrong amount or otherwise improper or missing, that may be due in connection with this and the attached papers, or with this application during its entire pendency to or to credit any overpayment to Deposit Account No. 50-1213. A duplicate of this sheet is enclosed.

Respectfully submitted, HELLER EHRMAN LLP

Bv:

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PTO/SB/08A (08-03)

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## INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

 Complete if Known

 Application Number
 10/828,542

 Filing Date
 04/19/2004

 First Named Inventor
 W. McKinzie

 Art Unit
 2918

 Examiner Name
 Seungsook Ham

 Attorney Docket Number
 42372-0004B

			U. S. PATEN	DOCUMENTS	
Examiner Initials*	Cite No.1	. Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant
	ļ	Number-Kind Code <sup>2 (d known)</sup>	·		Figures Appear
	Α	<sup>US-</sup> 6,538,538	03-25-2003	Hreish et al.	<u> </u>
	В	<sup>US-</sup> 6,075,485	06-13-2000	Lilly et al.	
	С	<sup>US-</sup> 6,061,025	05-09-2000	Jackson et al.	
	D	<sup>US-</sup> 6,262,495	07-17-2001	Yablonovitch et al.	
	Ε	<sup>US-</sup> 6,411,261	06-25-2002	Lilly	
	F	<sup>US-</sup> 6,476,771	11-05-2002	McKinzie, III	
	G	<sup>US-</sup> 6,501,427	12-31-2002	Lilly et al.	
	Н	<sup>US-</sup> 6,512,494	01-28-2003	Diaz et al.	
		<sup>US-</sup> 6,525,695	02-25-2003	McKinzie, III	
	J	<sup>US-</sup> 6,542,342	04-01-2003	Hayashi et al.	
	K	<sup>US-</sup> 6,567,048	05-20-2003	McKinzie et al.	
	L	<sup>US-</sup> 6,590,531	07-08-2003	McKinzie, III et al.	
	М	<sup>US-</sup> 6,670,932	12-30-2003	Diaz et al.	
	N	<sup>US-</sup> 6,646,605	11-11-2003	McKinzie, III et al.	
	0	<sup>US-</sup> 6,690,327	02-10-2004	McKinzie, III et al.	
	Р	<sup>US-</sup> 6,768,476	07-27-2004	Lilly et al.	
	Q	<sup>US-</sup> 6,774,866	08-10-2004	McKinzie, III et al.	
	R	<sup>US-</sup> 6,774,867	08-10-2004	McKinzie, III et al.	
	S	<sup>US-</sup> 6,831,602	12-14-2004	McKinzie, III et al.	

		FOREI	<b>GN PATENT DOCU</b>	MENTS		
Examiner Initials*	Cite No.1	Foreign Patent Document	Publication Date	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages	
		Country Code <sup>3</sup> Number <sup>4</sup> Kind Code <sup>5</sup> (if known)	MM-DD-YYYY		Or Relevant Figures Appear	T <sup>6</sup>
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Signature	Considered	
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INFORMATION DISCLOSURE
STATEMENT BY APPLICANT
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Application Number 10/796,398

Filing Date 03/08/2004

First Named Inventor W. McKinzie

Art Unit 2817

Examiner Name Seungsook Ham

Attorney Docket Number

Sheet 2 of 4

Examiner Initials*	Cite No.1	Document Number  Number-Kind Code <sup>2 (d known)</sup>	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	Т	<sup>US-</sup> 6,867,746	03-15-2005	Mendolia et al.	
	U	<sup>US-</sup> 6,888,316	05-03-2005	Seo et al.	
,	V	<sup>US-</sup> 6,897,831	05-24-2005	McKinzie, III et al.	
	W	<sup>US-</sup> 6,906,674	06-14-2005	McKinzie, III et al.	
	Х	<sup>US-</sup> 6,917,343	07-12-2005	Sanchez et al.	
	Υ	<sup>US-</sup> 6,933,895	08-23-2005	Mendolia et al.	
	Z	<sup>US-</sup> 6,937,192	08-30-2005	Mendolia et al.	
	AA	<sup>US-</sup> 2002/0183013 A1	12-05-2002	Auckland et al.	
	AB	<sup>US-</sup> 2003/0025637 A1	02-06-2003	Mendolia et al.	
	AC	<sup>US-</sup> 2003/0043071 A1	03-06-2003	Lilly et al.	
	AD	<sup>US-</sup> 2003/0071763 A1	04-17-2003	McKinzie, III et al.	
	AE	<sup>US-</sup> 2003/0137457 A1	07-24-2003	McKinzie, III et al.	
	AF	<sup>US-</sup> 2005/0029632 A1	02-10-2005	McKinzie, III et al.	
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		FORE	IGN PATENT DOCU	MENTS		_
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INF	ORMATIO	N DIS	CLOSURE	Filing Date	04/19/2004	
STATEMENT BY APPLICANT				First Named Inventor	W. McKinzie	
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	(000 do many si			Examiner Name	Seungsook Ham	
Sheet	3	of	4	Attorney Docket Number	42372-0004B	

		NON PATENT LITERATURE DOCUMENTS	
Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T²
	AG	International Search Report dated April 19, 2005, for International Application No. PCT/US05/13235.	
	АН	T. Lee, "A Vertical Leap for Microchips", Scientific American, January 2002, pp. 52-59.	
	AI	International Search Report dated October 21, 2005, for International Application No. PCT/US05/06784.	
	AJ	Abhari et al., "Suppression of Parallel-Plate Noise in High Speed Circuits Using a Metallic Electromagnetic Band-Gap Structure", 2002 IEEE MTT-S Intl. Microwave Symp. Digest,	
		pp. 493-496, Seattle, WA, June 2-7, 2002.	
	AK	Daniel R. Sievenpiper, "High-Impedance Electromagnetic Surfaces," dissertation, UCLA Electrical Engineering Dept., filed January 1999.	
	AL	Abhari et al., "Metallo-Dielectric Electromagnetic Bandgap Structures for Suppression and Isolation of the Parallel-Plate Noise in High Speed Circuits,"	
		IEEE Trans. MTT, Vol. 51, No. 6, June 2003.	
	AM	Kamgaing et al., "High-Impedance Electromagnetic Surfaces for Parallel-Plate Mode Suppression in High Speed Digital Systems", IEEE 11th Topical Meeting on Electrical	
		Performance of Electronic Packaging (EPEP), Monterey, CA, Oct. 21-23, 2002.	

Examiner	Date	
Signature	Considered	

<sup>\*</sup>EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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				Application Number	10/828,542
INF	DRMATION	DIS	CLOSURE	Filing Date	04/19/2004
STA	TEMENT E	BY A	PPLICANT	First Named Inventor	W. McKinzie
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Sheet	4	of	4	Attorney Docket Number	42372-0004B

		NON PATENT LITERATURE DOCUMENTS	
Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
	AN	Kamgaing et al., "A Novel Power Plane with Integrated Simultaineous Switching Noise Mitigation Capability Using High Impedance Surface," IEEE Microwave and Wireless	
		Components Letter, Vol. 13, No. 1, January 2003.	
	АО	Kamgaing et al., "Inductance-Enhanced High-Impedance Surfaces for Broadband Simultaneous Switching Noise Mitigation in Power Planes,"	
		2003 IEEE MTT-S Intl. Microwave Symp. Digest, pp. 2165-2168, Philadelphia, PA, June 8-13, 2003.	
	AP	Kamgaing et al., "Development and Application fo Physics-based Compact Models for High-Impedance Electromagnetic Surfaces Integrated in a Power Plane Configuration",	
-		IEEE Intl. Antennas and Propagation Symp., Vol. 4, pp. 442-445, Columbus, OH, June 22-27, 2003.	

Examiner	Date	
Signature	Considered	

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